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(54) NONMAGNETIC STAINLESS STEEL FOR ORGANISM

(57)Abstract:

PROBLEM TO BE SOLVED: To suppress the occurrence of allergies caused by Ni in a stainless steel and to make it suitable as the material for an organism by specifying the contents of Mn, Cr, P, S, N, Mo, and O in a stainless steel and reducing the content of Ni.

SOLUTION: This nonmagnetic stainless is composed of, by weight, $\leq 0.06\%$ C, $\leq 1.0\%$ Si, 15.0 to 22.0% Mn $\leq 0.0030\%$ P, $\leq 0.015\%$ S, $\leq 0.1\%$ Ni, 15.0 to 18.0% Cr, 0.35 to 0.60% N, 0.5 to 4.0% Mo, $\leq 0.020\%$ O, and the balance substantial Fe. If required, one or two kinds of 0.1 to 1.5% Cu and 0.1 to 0.8% W are furthermore incorporated thereon to improve its corrosion resistance. The steel can be produced under the ordinary atmospheric pressure and low pressurization, and similarly to the case of Ni free stainless steels, the content of Ni is reduced to suppress the elution of Ni.

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